

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P459217

Luminaire Tested: **GALN-SA7A-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24545 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

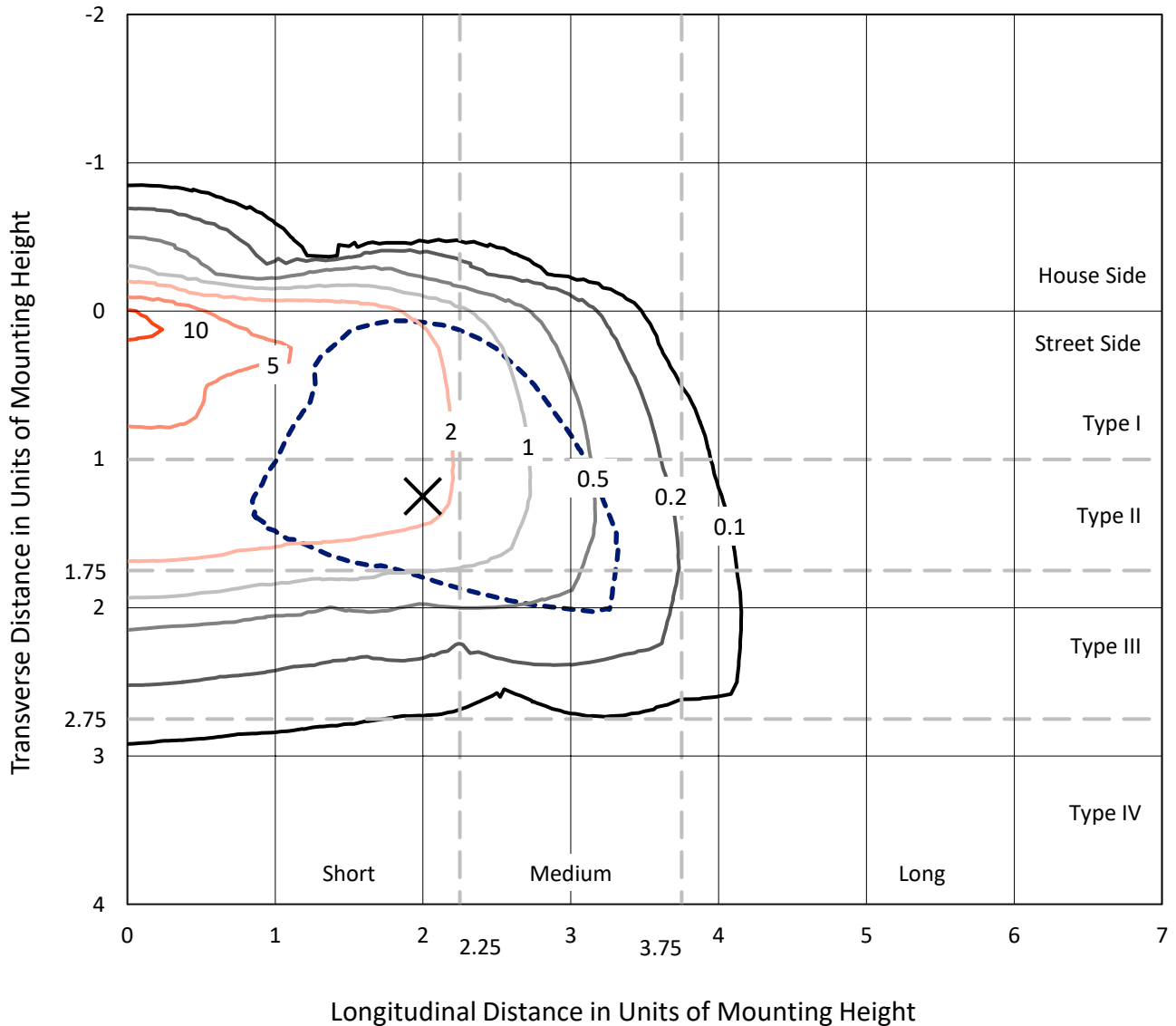
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

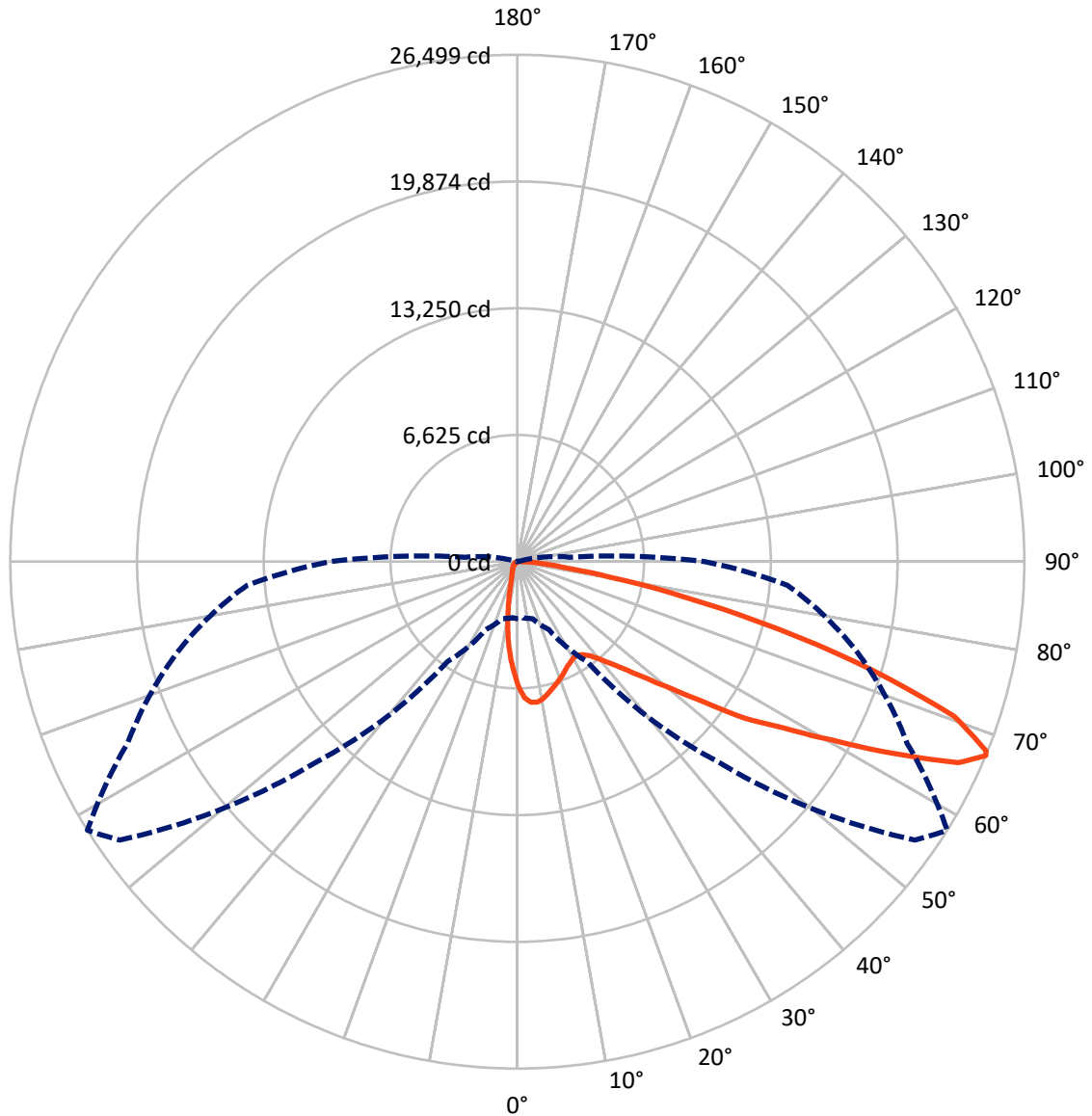
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.3	0.0	1771.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22773.7	0.0	22773.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	24545.0	0.0	24545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.0	2.2
10°-20°	1140.3	4.6
20°-30°	1545.3	6.3
30°-40°	2143.2	8.7
40°-50°	3418.1	13.9
50°-60°	5908.5	24.1
60°-70°	6749.4	27.5
70°-80°	2813.9	11.5
80°-90°	298.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24545.0	100.0
0°-180°	24545.0	100.0

Coefficient of Utilization



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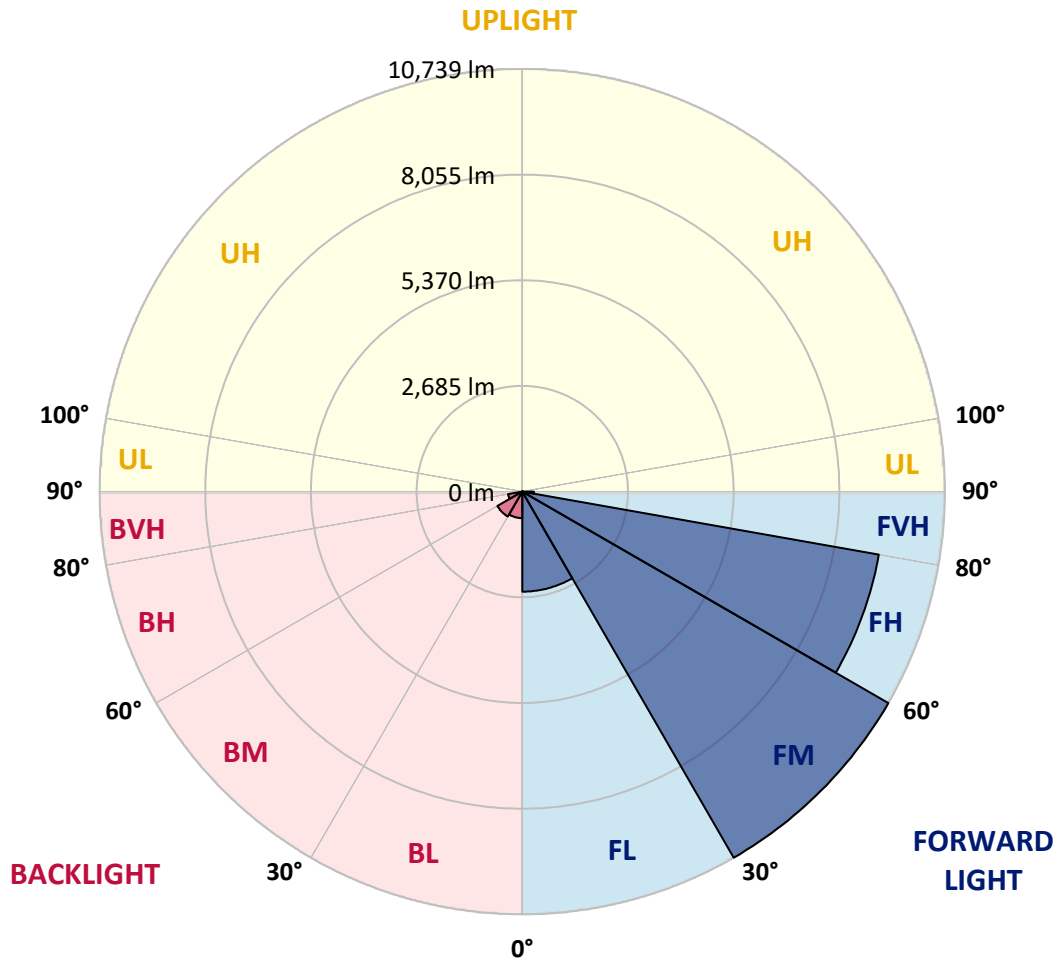
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2541.0	10.4			
FM (30°-60°)	10739.5	43.8			
FH (60°-80°)	9197.0	37.5			G4/12000
FVH (80°-90°)	296.2	1.2			G3/500
BL (0°-30°)	672.6	2.7	B2/1000		
BM (30°-60°)	730.4	3.0	B1/1000		
BH (60°-80°)	366.2	1.5	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7
2.5°	7551.5	7562.9	7520.3	7485.9	7397.3	7302.1	7175.9	7108.6	6993.8	6795.3	6575.5
5°	7728.6	7743.4	7736.8	7728.6	7694.2	7602.3	7441.6	7382.5	7213.6	6890.5	6493.5
7.5°	7335.0	7389.1	7395.6	7459.6	7520.3	7528.5	7467.8	7423.5	7267.7	6888.8	6347.6
10°	6813.4	6849.5	6901.9	6975.7	7121.7	7243.1	7302.1	7295.6	7205.4	6838.0	6177.0
12.5°	6286.9	6306.6	6386.9	6513.2	6692.0	6898.7	7056.1	7087.3	7088.9	6777.3	6034.3
15°	5834.2	5826.0	5888.3	6034.3	6285.2	6544.4	6826.5	6875.7	6954.4	6718.2	5901.4
17.5°	5447.1	5489.7	5499.6	5660.3	5891.6	6227.8	6587.0	6674.0	6831.4	6667.4	5791.5
20°	5207.6	5230.6	5251.9	5342.1	5550.4	5904.7	6362.3	6482.1	6716.6	6621.5	5668.5
22.5°	5137.1	5151.9	5133.8	5161.7	5309.3	5624.2	6117.9	6277.0	6606.7	6578.8	5568.5
25°	5191.2	5206.0	5163.3	5130.5	5181.4	5396.2	5881.7	6075.3	6518.1	6570.6	5493.0
27.5°	5322.4	5350.3	5291.3	5232.2	5202.7	5273.2	5696.4	5921.1	6457.4	6610.0	5458.6
30°	5527.5	5543.9	5499.6	5427.4	5360.2	5289.6	5599.6	5814.5	6441.0	6701.8	5455.3
32.5°	5750.5	5785.0	5760.4	5712.8	5625.9	5458.6	5627.5	5817.8	6480.4	6834.7	5496.3
35°	6026.1	6065.4	6088.4	6078.6	5967.0	5758.7	5804.7	5965.4	6585.4	7079.1	5607.8
37.5°	6296.7	6331.2	6460.7	6505.0	6406.6	6209.8	6149.1	6255.7	6816.7	7398.9	5809.6
40°	6606.7	6652.6	6834.7	7003.6	6956.1	6749.4	6637.9	6726.4	7170.9	7881.1	6191.7
42.5°	6903.6	6985.6	7262.8	7561.3	7605.6	7374.3	7300.5	7330.0	7695.8	8574.9	6724.8
45°	7325.1	7402.2	7759.8	8164.9	8373.2	8192.8	8117.3	8112.4	8415.8	9550.9	7589.2
47.5°	7933.6	8002.5	8424.0	8824.2	9194.9	9219.5	9076.8	9126.0	9321.2	10692.4	8648.7
50°	8679.9	8842.3	9119.5	9536.1	10031.4	10431.6	10475.9	10410.3	10577.6	12014.4	9921.5
52.5°	9764.1	9826.4	10080.6	10423.4	11004.1	11683.1	12209.6	12119.4	12066.9	13274.1	11207.5
55°	10572.7	10656.3	11051.6	11522.4	12373.6	13269.2	14410.8	14441.9	13779.3	14484.6	12465.5
57.5°	10328.3	10456.2	11054.9	12001.3	13872.8	15509.7	16359.3	16380.6	15363.7	15660.6	13885.9
60°	9073.6	9134.2	9992.1	11255.0	14000.7	17937.2	19123.0	18950.8	16976.0	16976.0	15140.6
62.5°	6434.5	6529.6	7225.1	9083.4	12644.3	18780.2	22432.9	22077.0	19196.8	18234.0	15888.6
65°	4112.0	4020.1	4481.0	5734.1	9419.6	17535.3	25314.8	25336.1	21286.5	18737.6	15480.2
67°	2978.6	2942.5	3075.4	3920.1	6386.9	14740.4	25375.5	26499.0	22487.1	18419.4	14174.6
67.5°	2724.4	2752.2	2849.0	3536.3	5803.0	13413.5	25099.9	26430.1	22757.7	18227.5	13702.2
70°	2065.0	2017.4	2122.4	2501.3	3478.9	8461.8	21591.5	24240.4	22421.5	16323.2	10948.3
72.5°	1518.8	1513.9	1659.9	2045.3	2678.4	4507.3	16208.4	19436.3	18317.7	12429.4	6893.7
75°	1025.1	1071.0	1304.0	1709.1	2427.5	2922.8	11050.0	14100.8	12716.4	7057.8	2817.9
77.5°	583.9	587.2	839.8	1372.8	2179.8	2352.0	6547.7	8983.3	6731.4	2347.1	836.5
80°	252.6	277.2	416.6	997.2	1807.5	2083.0	3754.4	4937.0	2722.7	497.0	270.6
82.5°	93.5	109.9	183.7	613.4	1318.7	1715.6	2268.4	2357.0	923.4	175.5	168.9
85°	0.0	3.3	67.2	287.0	687.2	766.0	1515.5	1397.4	408.4	83.6	109.9
87.5°	0.0	0.0	0.0	29.5	90.2	285.4	470.7	524.9	98.4	29.5	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7	6506.7
2.5°	6457.4	6350.8	6083.5	5816.1	5617.7	5452.0	5202.7	5066.6	4994.4	4887.8	4894.3
5°	6295.1	6078.6	5607.8	5120.7	4727.0	4343.2	3884.0	3698.6	3542.8	3454.3	3395.2
7.5°	6054.0	5734.1	5037.0	4387.5	3782.3	3111.5	2607.9	2271.7	2045.3	1961.7	1881.3
10°	5789.9	5365.1	4458.1	3557.6	2717.8	2025.6	1599.2	1290.8	1180.9	1079.2	1089.1
12.5°	5545.5	5028.8	3926.6	2808.0	1904.3	1287.6	1003.8	877.5	841.4	829.9	829.9
15°	5345.4	4707.4	3355.8	2110.9	1305.6	925.1	803.7	769.3	756.1	752.8	752.8
17.5°	5132.2	4402.3	2840.8	1559.8	949.7	774.2	733.2	710.2	705.3	702.0	702.0
20°	4941.9	4095.6	2352.0	1161.3	767.6	697.1	670.8	656.1	651.2	647.9	649.5
22.5°	4761.5	3823.3	1892.8	877.5	675.8	634.8	608.5	593.8	583.9	575.7	577.3
25°	4600.7	3560.9	1522.1	718.4	608.5	572.4	546.2	524.9	503.5	493.7	492.1
27.5°	4487.6	3331.2	1185.9	615.1	547.8	508.5	475.7	449.4	421.5	406.8	403.5
30°	4394.1	3098.3	938.2	542.9	487.1	449.4	408.4	370.7	341.2	326.4	319.8
32.5°	4333.4	2876.9	739.7	483.9	436.3	390.4	344.4	306.7	273.9	259.2	255.9
35°	4323.6	2691.6	605.2	434.7	390.4	341.2	293.6	252.6	224.7	209.9	206.7
37.5°	4394.1	2548.9	506.8	395.3	352.6	298.5	246.0	208.3	183.7	172.2	170.6
40°	4582.7	2458.7	439.6	362.5	318.2	259.2	209.9	177.1	152.5	141.1	141.1
42.5°	4941.9	2461.9	395.3	331.3	283.8	221.4	178.8	147.6	126.3	116.5	113.2
45°	5502.9	2573.5	357.6	300.2	250.9	191.9	152.5	121.4	100.1	91.9	91.9
47.5°	6254.1	2794.9	324.8	269.0	221.4	164.0	129.6	98.4	80.4	72.2	72.2
50°	7236.5	3150.8	296.9	242.7	196.8	141.1	105.0	80.4	62.3	55.8	54.1
52.5°	8263.3	3590.4	264.1	219.8	168.9	119.7	85.3	62.3	47.6	42.6	41.0
55°	9396.7	4020.1	232.9	196.8	137.8	100.1	67.2	49.2	34.4	29.5	29.5
57.5°	10539.9	4441.6	195.2	164.0	108.3	73.8	52.5	36.1	23.0	18.0	18.0
60°	11507.6	4577.8	165.7	132.9	82.0	52.5	37.7	23.0	13.1	8.2	8.2
62.5°	11640.5	4118.5	139.4	101.7	59.0	36.1	19.7	13.1	4.9	3.3	3.3
65°	10918.8	3346.0	116.5	77.1	39.4	18.0	8.2	4.9	1.6	0.0	0.0
67°	9783.8	2712.9	95.1	57.4	27.9	11.5	4.9	1.6	0.0	0.0	0.0
67.5°	9493.4	2586.6	91.9	54.1	24.6	9.8	3.3	1.6	0.0	0.0	0.0
70°	7449.8	1937.1	65.6	32.8	14.8	6.6	0.0	0.0	0.0	0.0	0.0
72.5°	4630.3	1095.7	47.6	19.7	9.8	3.3	0.0	0.0	0.0	0.0	0.0
75°	1750.1	383.8	32.8	13.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	544.5	146.0	19.7	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	183.7	55.8	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	113.2	23.0	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.5	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)